This listing of claims replaces all prior versions, and listings, of claims in the application:

Listing of Claims:

- 1. (currently amended) A solar collector comprising:
 - a curved glass mirror comprising a single, continuous, curved surface;
 - a front sheet;
- a core comprising a core material selected from the group consisting of a honeycomb structure, a foam selected from the group consisting of polystyrene, polyurethane, and polyvinyl chloride, and a cellulose based material; and
- a back sheet having a thermal expansion coefficient similar to that of said front sheet;

wherein a back of said mirror is affixed to said front sheet; said front sheet is affixed to said core; and said core is affixed to said back sheet.

- 2. (previously presented) The solar collector of claim 1 further comprising a sealing strip positioned between said glass mirror and said front sheet.
 - 3. (original) The solar collector of claim 1 wherein said sealing strip comprises EPDM.
 - 4. (original) The solar collector of claim 1 wherein said glass mirror comprises a silvered backing.
- 5. (original) The solar collector of claim 1 wherein said front sheet and back sheet comprise carbon steel.
- 6. (original) The solar collector of claim 5 wherein said carbon steel front sheet and carbon steel back sheet comprise a gauge between approximately 24 and 28 gauge.

- 7. (original) The solar collector of claim 1 wherein said core material comprises a honeycomb structure.
- 8. (original) The solar collector of claim 7 wherein said honeycomb core material comprises aluminum.
- 9. (original) The solar collector of claim 8 wherein said aluminum honeycomb core material comprises aluminum foil between approximately 0.015 and 0.004 inch foil.
- 10. (original) The solar collector of claim 1 wherein said core material comprises foam selected from the group consisting of polystyrene, polyurethane, and polyvinyl chloride.
- 11. (original) The solar collector of claim 1 wherein said core material comprises a cellulose based material.

- 12. (currently amended) A method of making a solar collector comprising the following steps:
- affixing a glass mirror comprising a single, continuous, curved surface to a front sheet to make a glass/sheet laminate;
- affixing the sheet side of the laminate to a surface of a core material selected from the group consisting of a honeycomb structure, a foam selected from the group consisting of polystyrene, polyurethane, and polyvinyl chloride, and a cellulose based material;
- affixing a back sheet to an opposite surface of the core material to make a C) composite panel;
- d) shaping the composite panel to a specific curvature by curing, under pressure, the composite panel over a mandrel of approximately inverse curvature;
- removing the composite panel from the mandrel and retaining the mirror, (e) the front sheet, the core material, and the back sheet intact as a stacked structure.
- 13. (original) The method of claim 12 further comprising the step of positioning a sealing strip between the glass mirror and front sheet to minimize the accumulation of moisture between the glass mirror and front sheet.
- 14. (previously presented) The method of claim 12 further comprising the step of stacking a plurality of the composite panels atop each other and atop a single, one-sided mandrel to allow simultaneous construction of solar collectors.
- 15. (original) The method of claim 12 further comprising the step of applying a vacuum to the composite panel in contact with the mandrel.
- 16. (original) The method of claim 14 further comprising the step of applying a vacuum to the composite panel in contact with the mandrel.

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- 17. (original) The method of claim 13 wherein the sealing strip comprises EPDM.
- 18. (original) The method of claim 12 wherein the glass mirror comprises a silvered backing.
- 19. (original) The method of claim 12 wherein the front sheet and back sheet comprise carbon steel.
- 20. (original) The method of claim 19 wherein the carbon steel front sheet and carbon steel back sheet comprise a gauge between approximately 24 and 28 gauge.
- 21. (original) The method of claim 12 wherein the core material comprises a honeycomb structure.
 - 22. (original) The method of claim 21 wherein the honeycomb structure comprises aluminum.
- 23. (original) The method of claim 22 wherein said aluminum honeycomb structure comprises aluminum foil between approximately 0.015 and 0.004 inch foil.
- 24. (original) The method of claim 12 further comprising the step of stacking a plurality of the composite panels above and below a single, double-sided mandrel to allow simultaneous construction of solar collectors.

- 25. (currently amended) A method of making a solar collector comprising the following steps:
- a) affixing a glass mirror <u>comprising a single, continuous surface</u> to a front sheet to make a glass/sheet laminate;
- b) placing the glass/sheet laminate mirror side down over a mandrel of specific curvature;
- c) applying a coating of an expandable foam selected from the group consisting of polystylene, polyurethane, and polyvinyl chloride on the sheet side of the laminate;
- d) positioning a back sheet in a frame such that as the foam expands the foam comes in contact with a surface of the back sheet, and forces the coated laminate to adopt the inverse shape of the mandrel thus forming a composite panel; and
- e) removing the frame from the back sheet and the composite panel from the mandrel[,] and retaining the mirror, the front sheet, the coating expandable foam, and the back sheet intact as a stacked structure.
 - 26. (canceled)
 - 27. (original) The method of claim 25 wherein the glass mirror comprises a silvered backing.
- 28. (original) The method of claim 25 wherein the front sheet and back sheet comprise carbon steel.
- 29. (original) The method of claim 25 wherein the carbon steel front sheet and carbon steel back sheet comprise a gauge between approximately 24 and 28 gauge.

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